

FIG.1

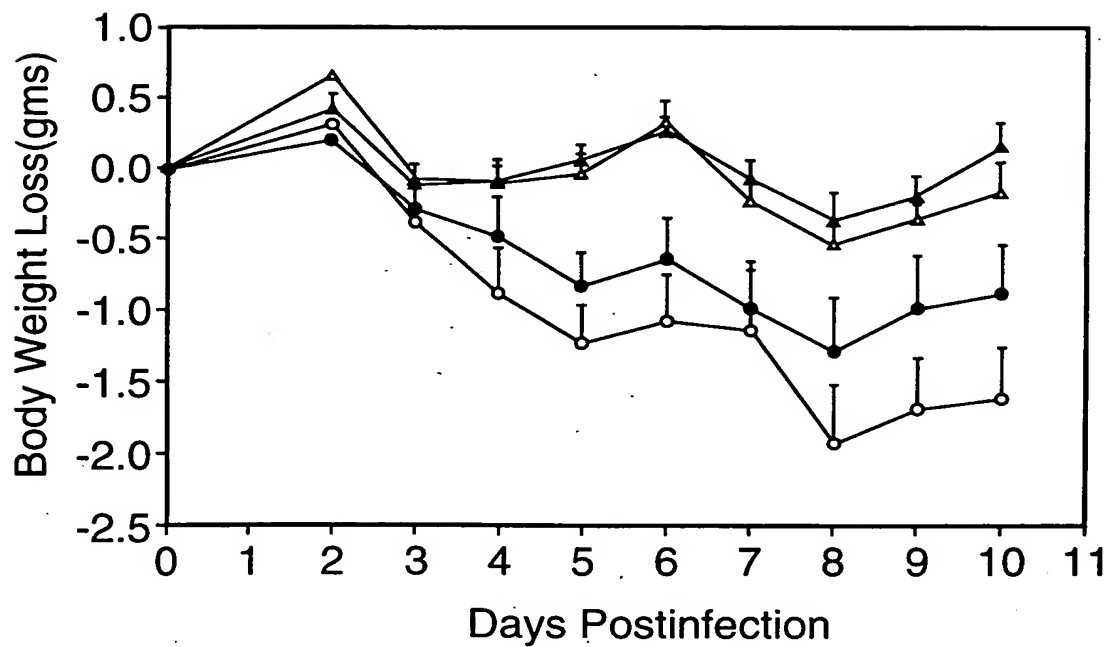


FIG.2A

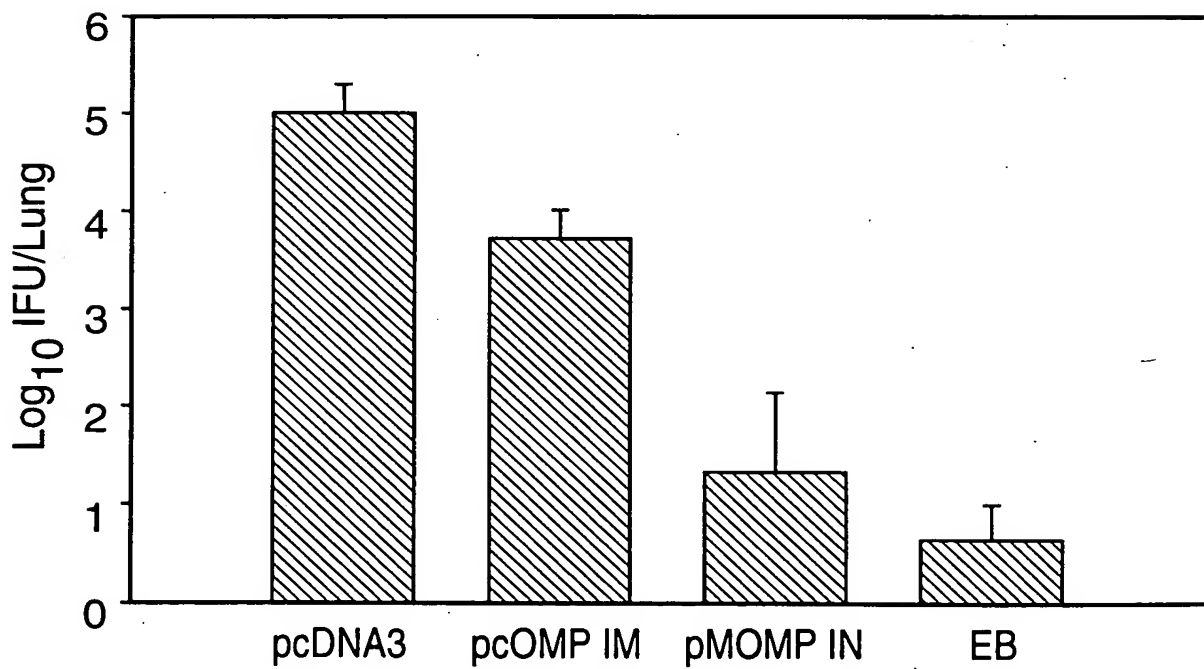


FIG.2B

204070 2059200

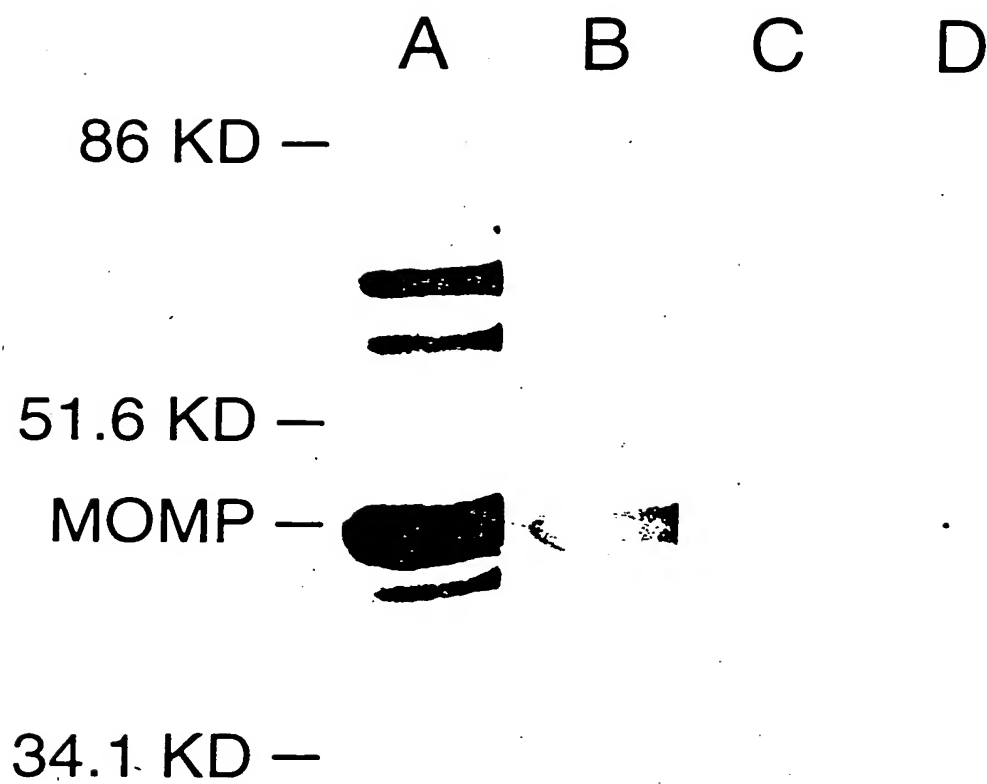


FIG.3

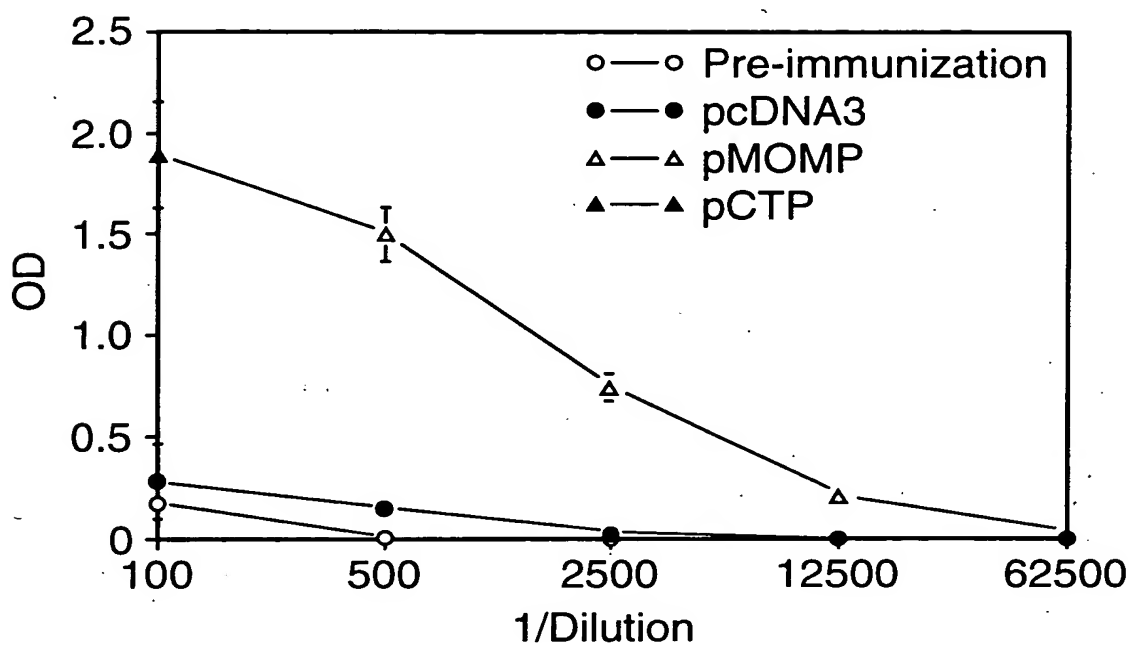


FIG.4A

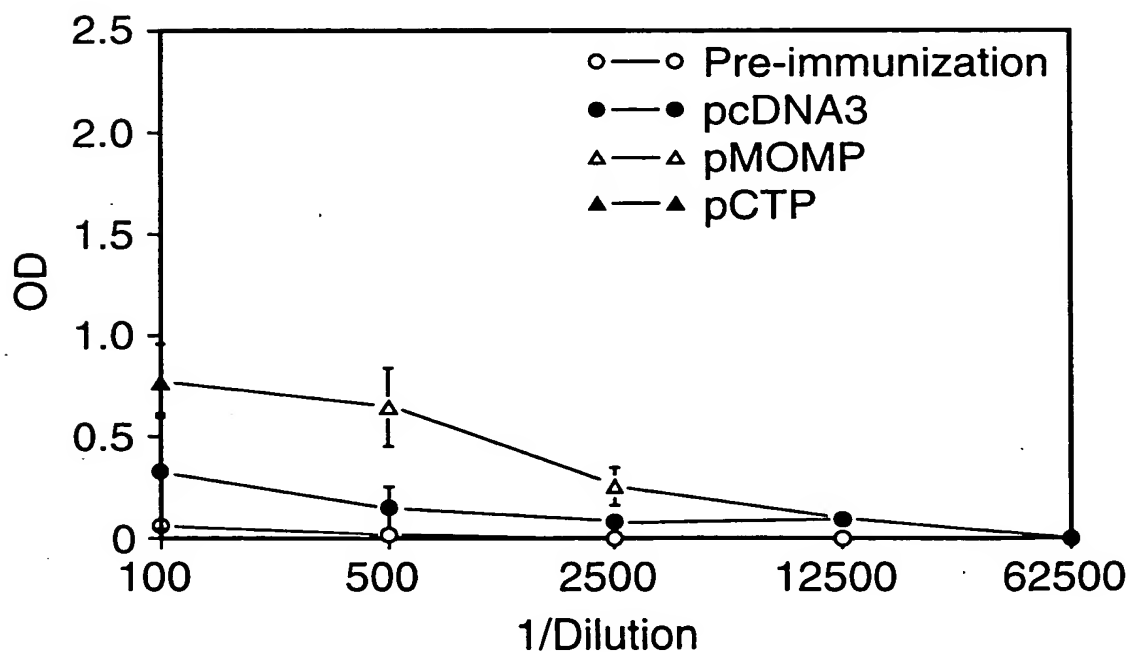
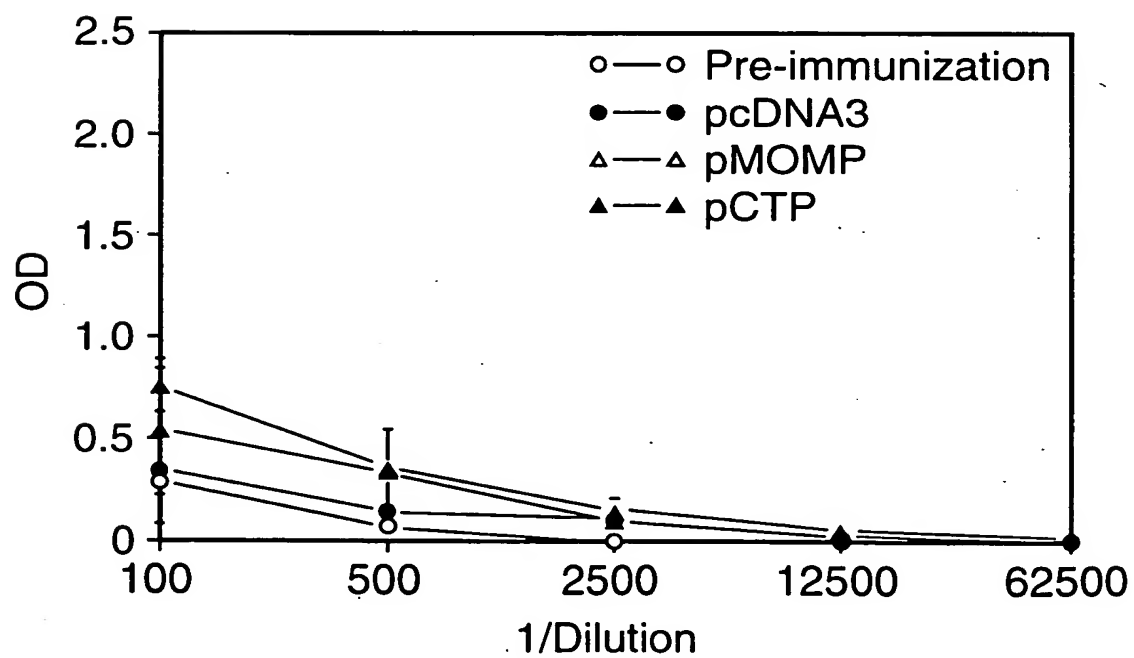
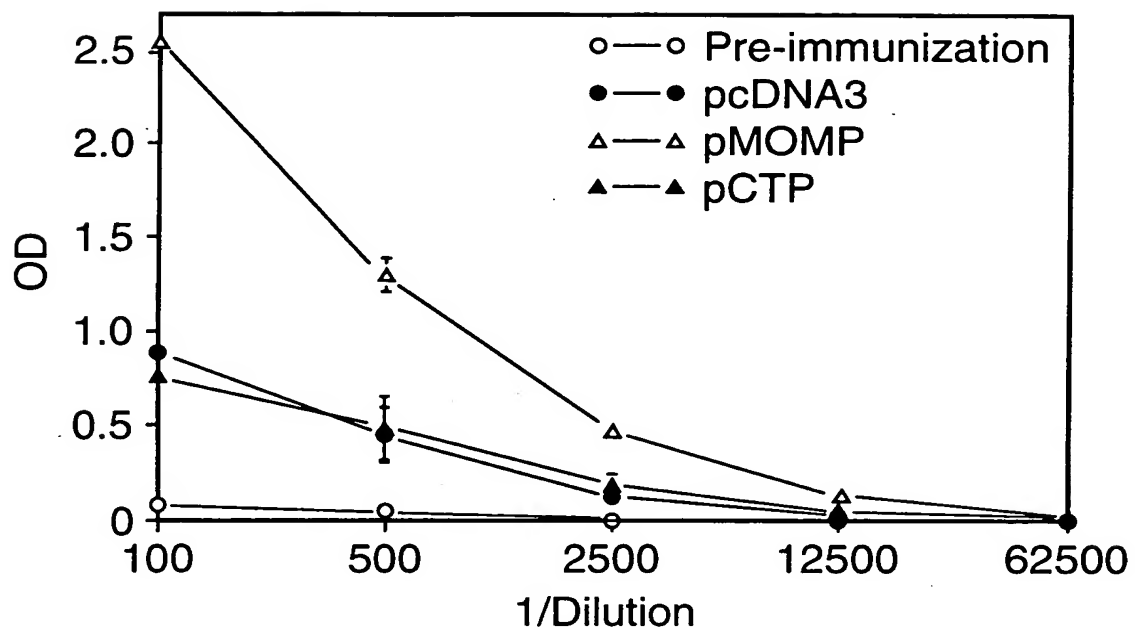


FIG.4B



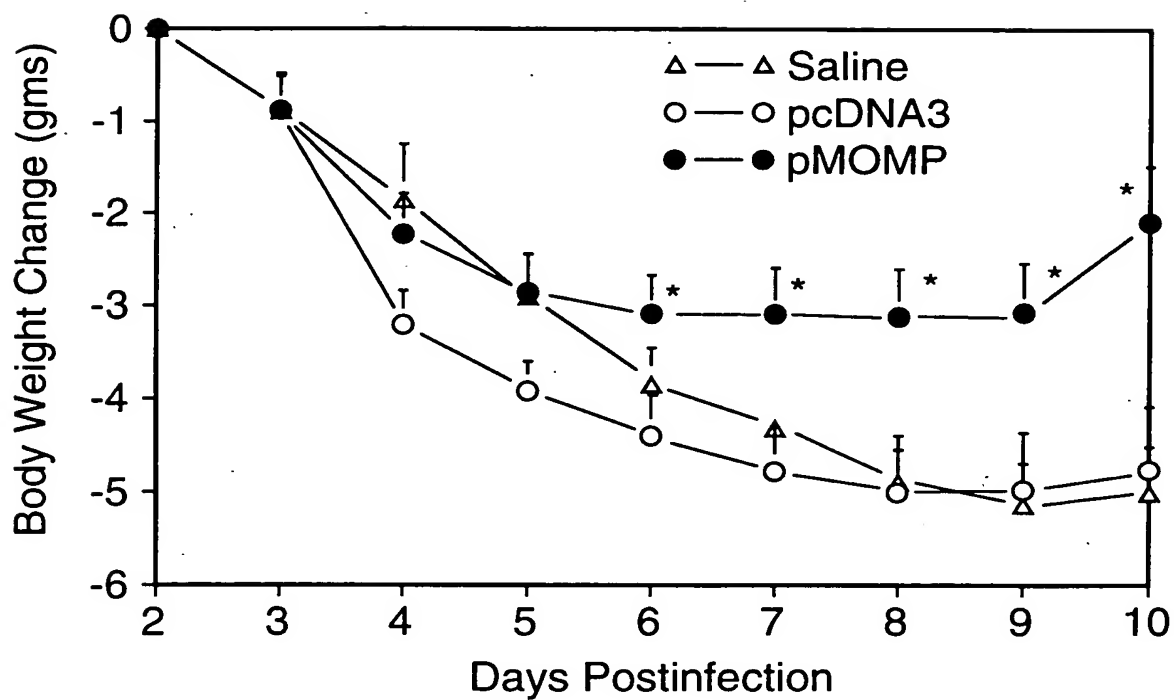


FIG.5A

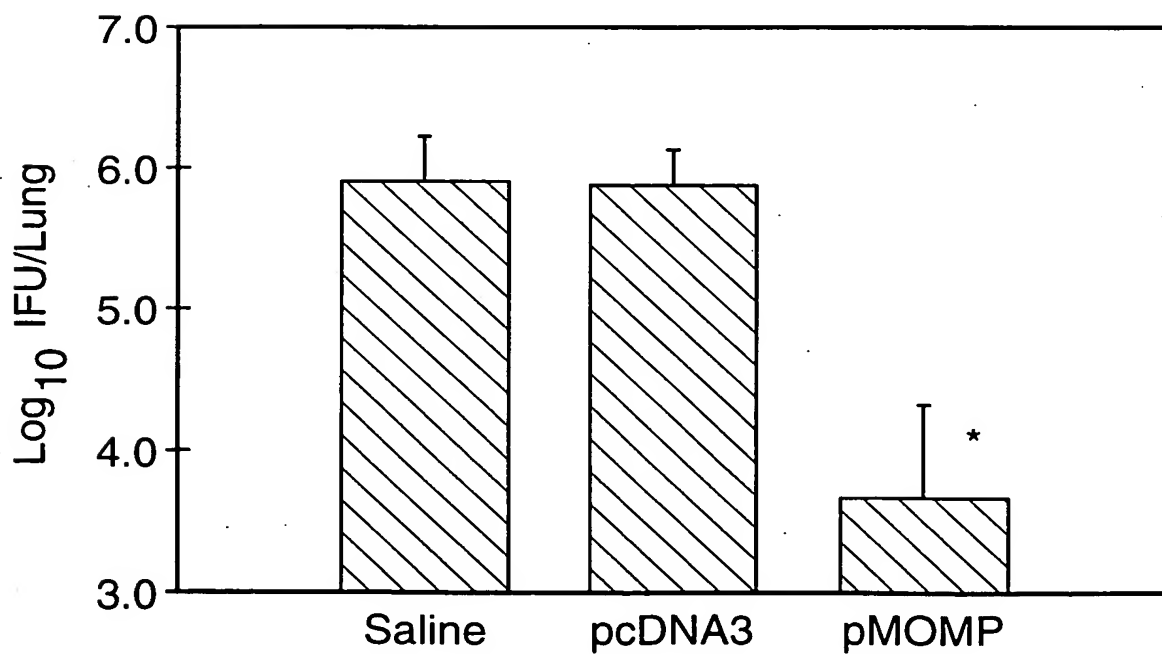


FIG.5B

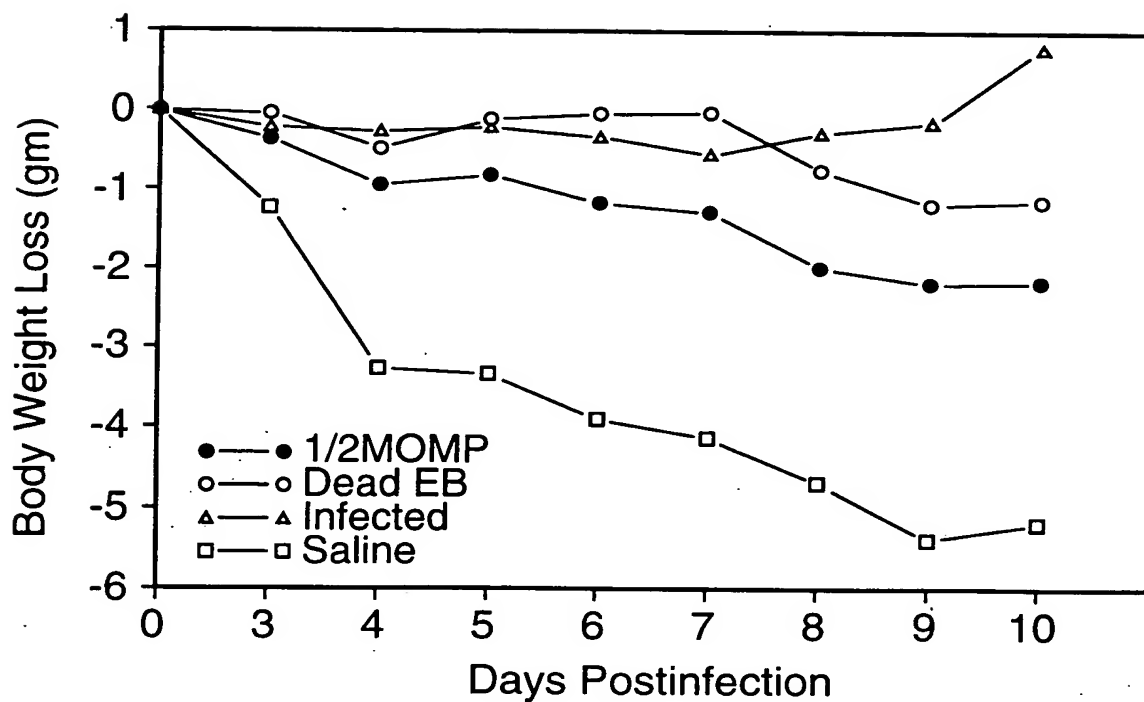


FIG.6A

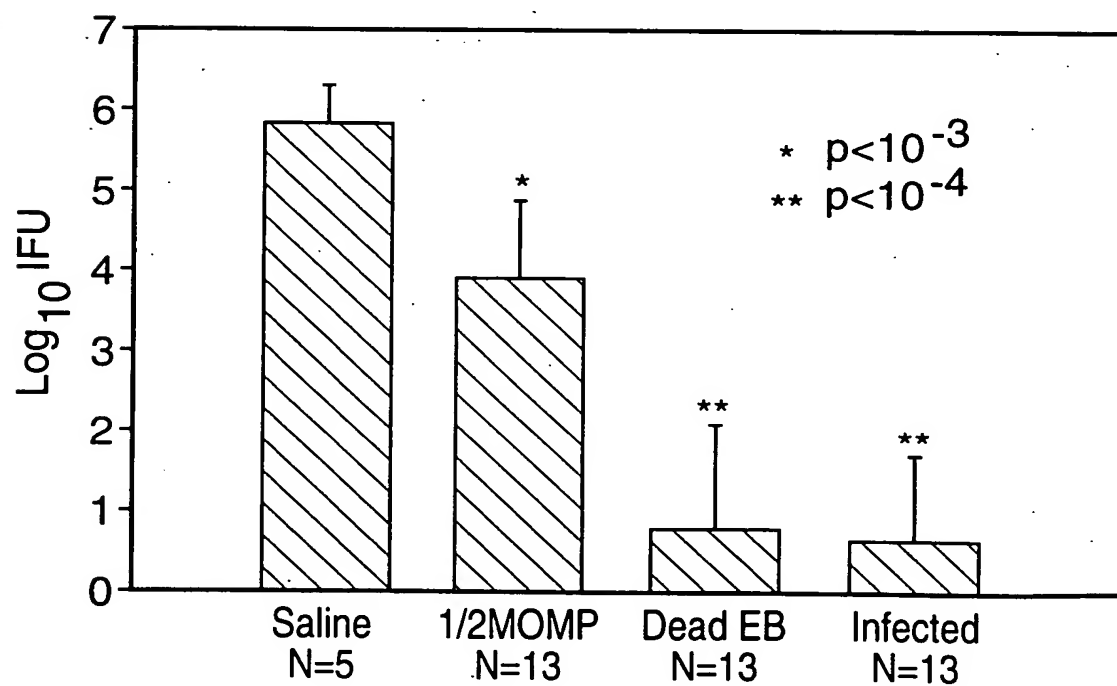


FIG.6B

202010 20592001

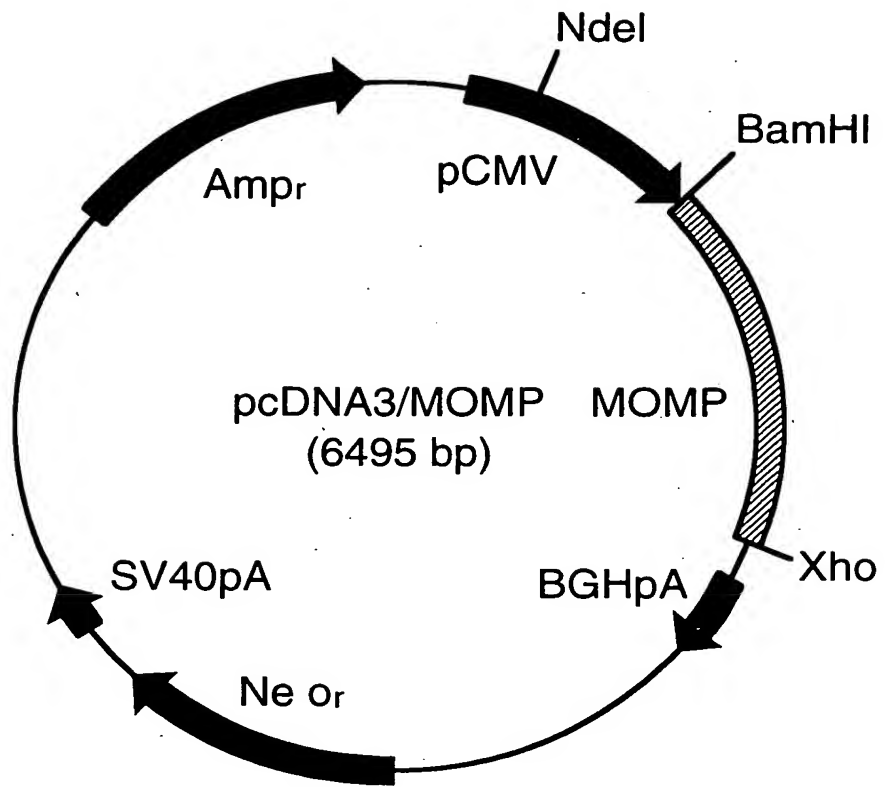


FIG.7



MoPn MOMP gene (nucleotide number of mature MOMP)

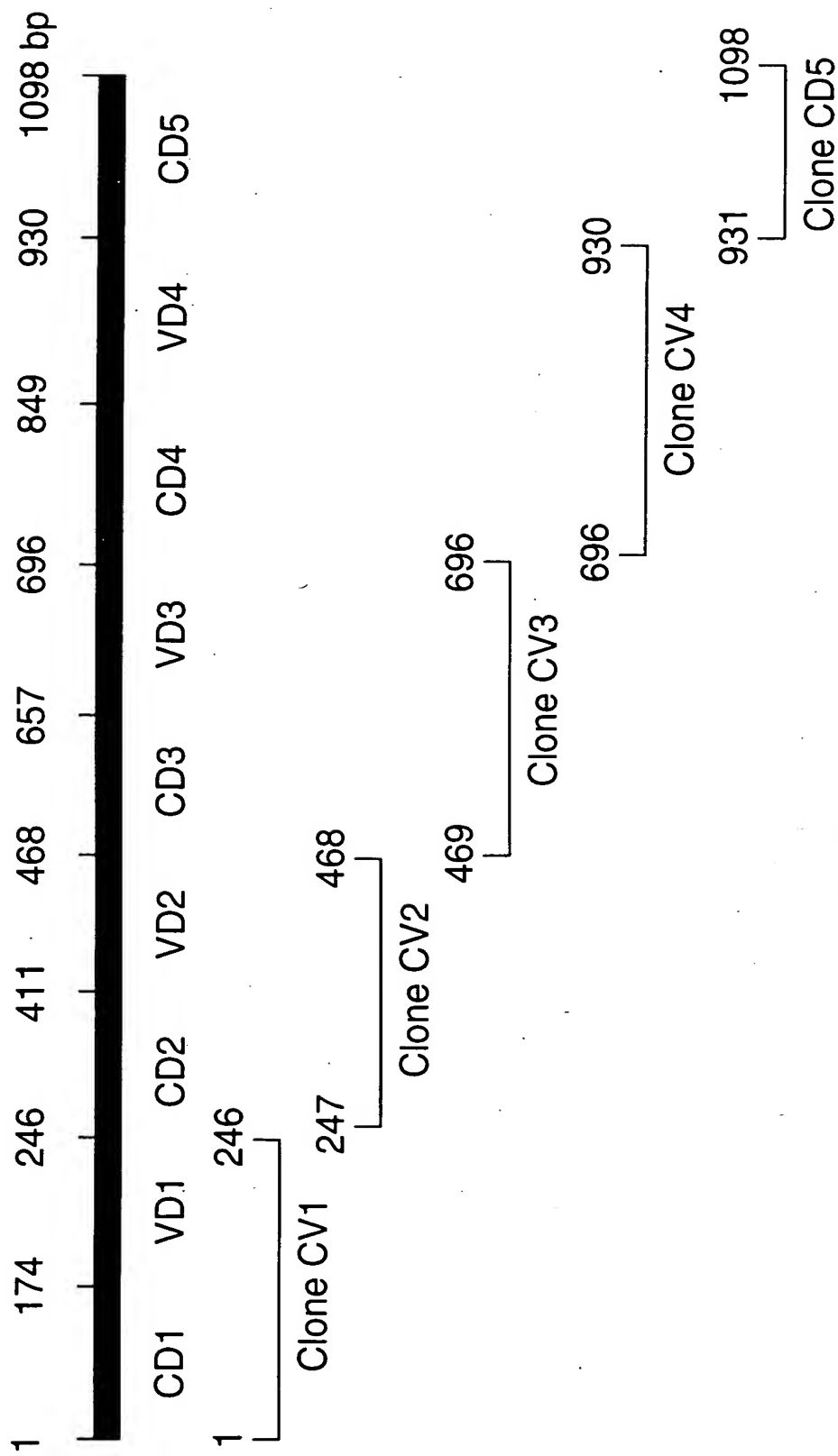


FIG.8

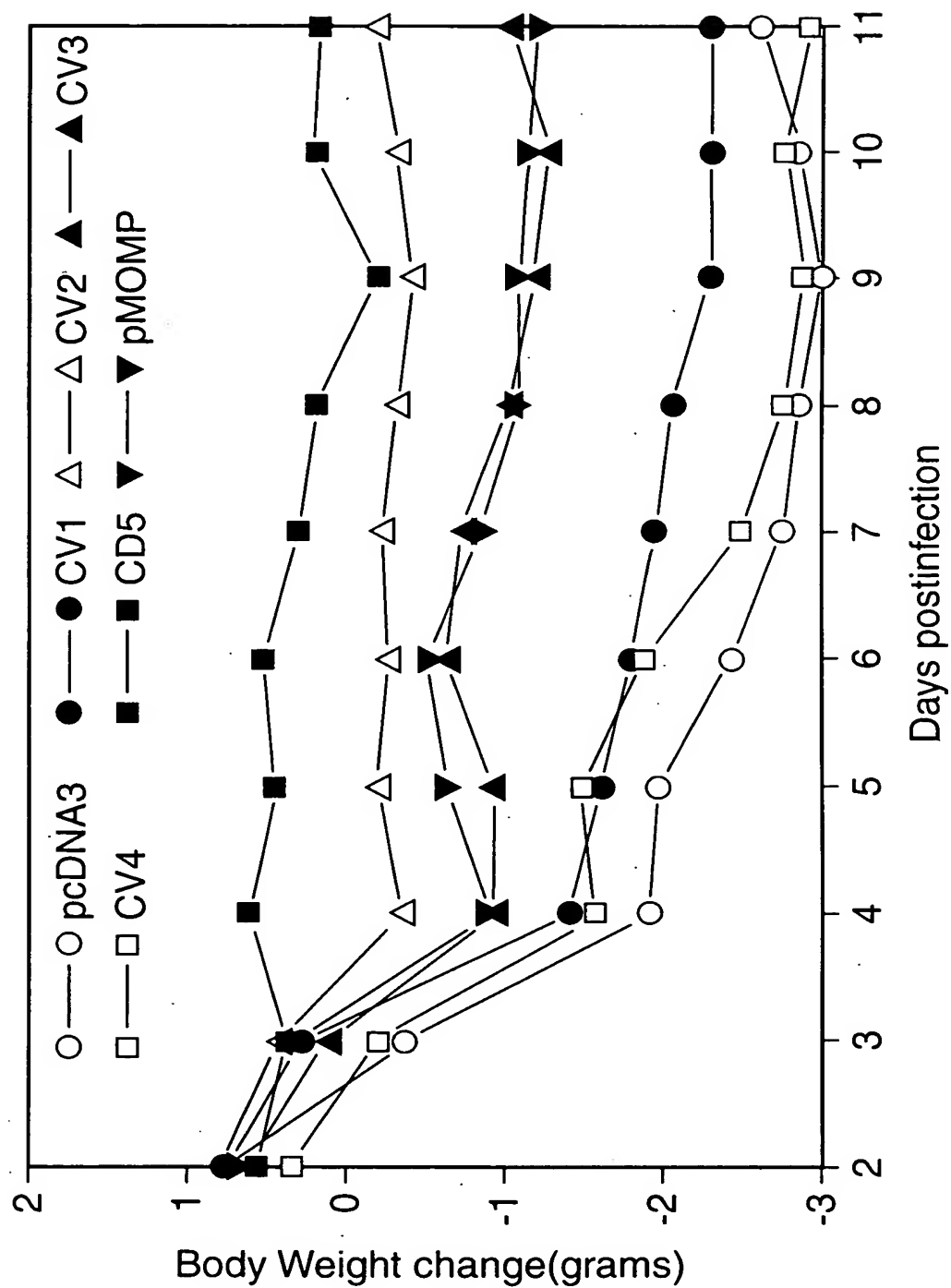


FIG. 9

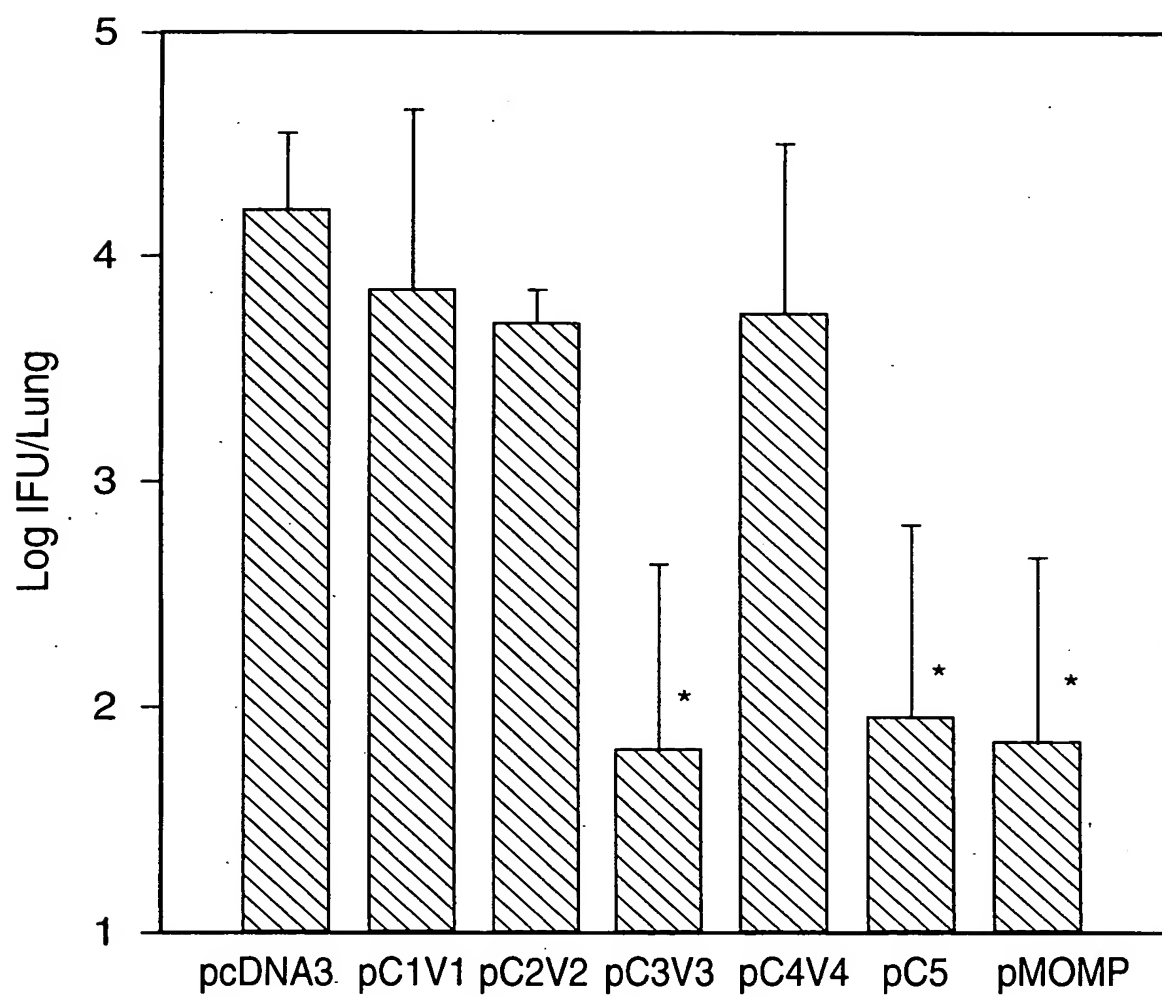


FIG.10

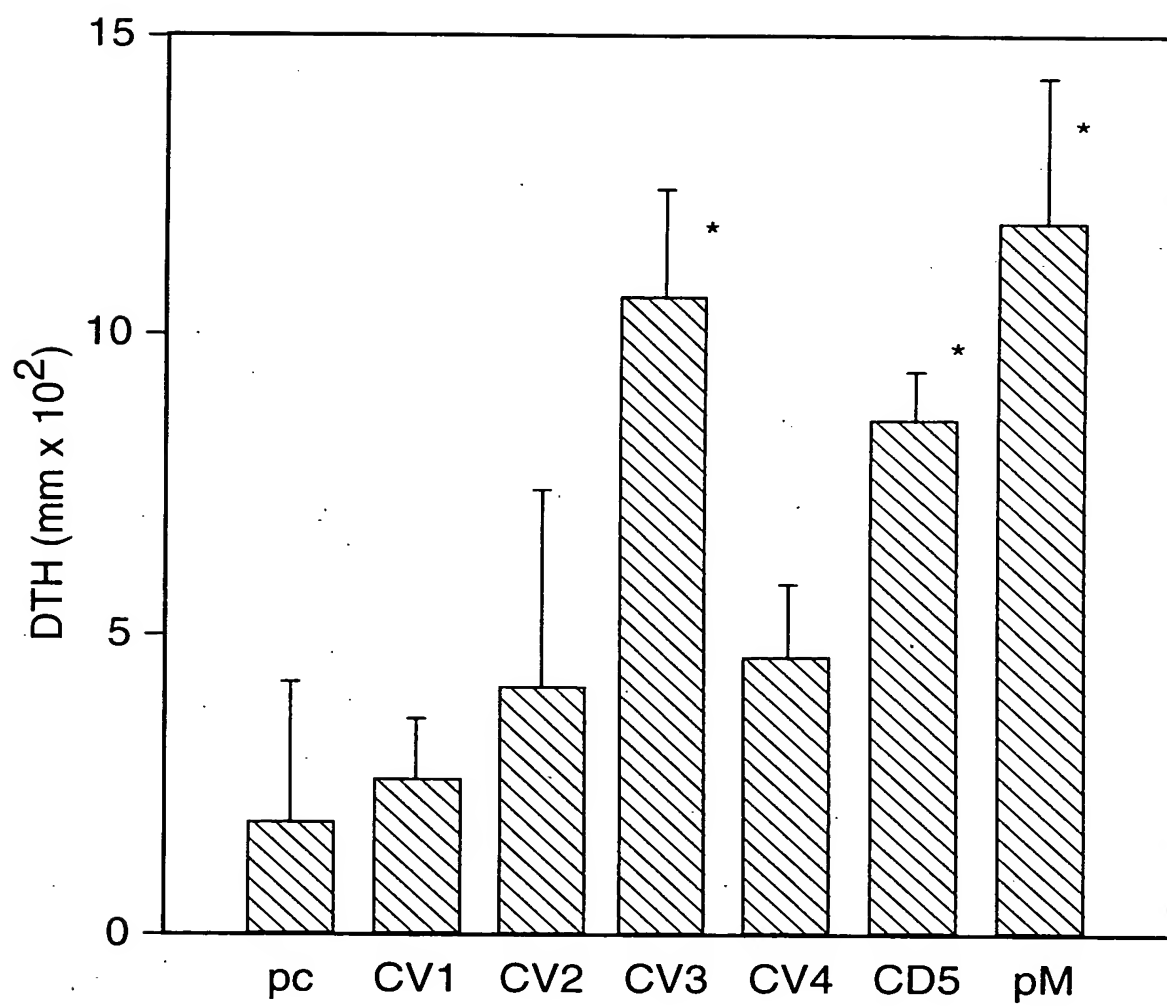


FIG.11

2040704099001

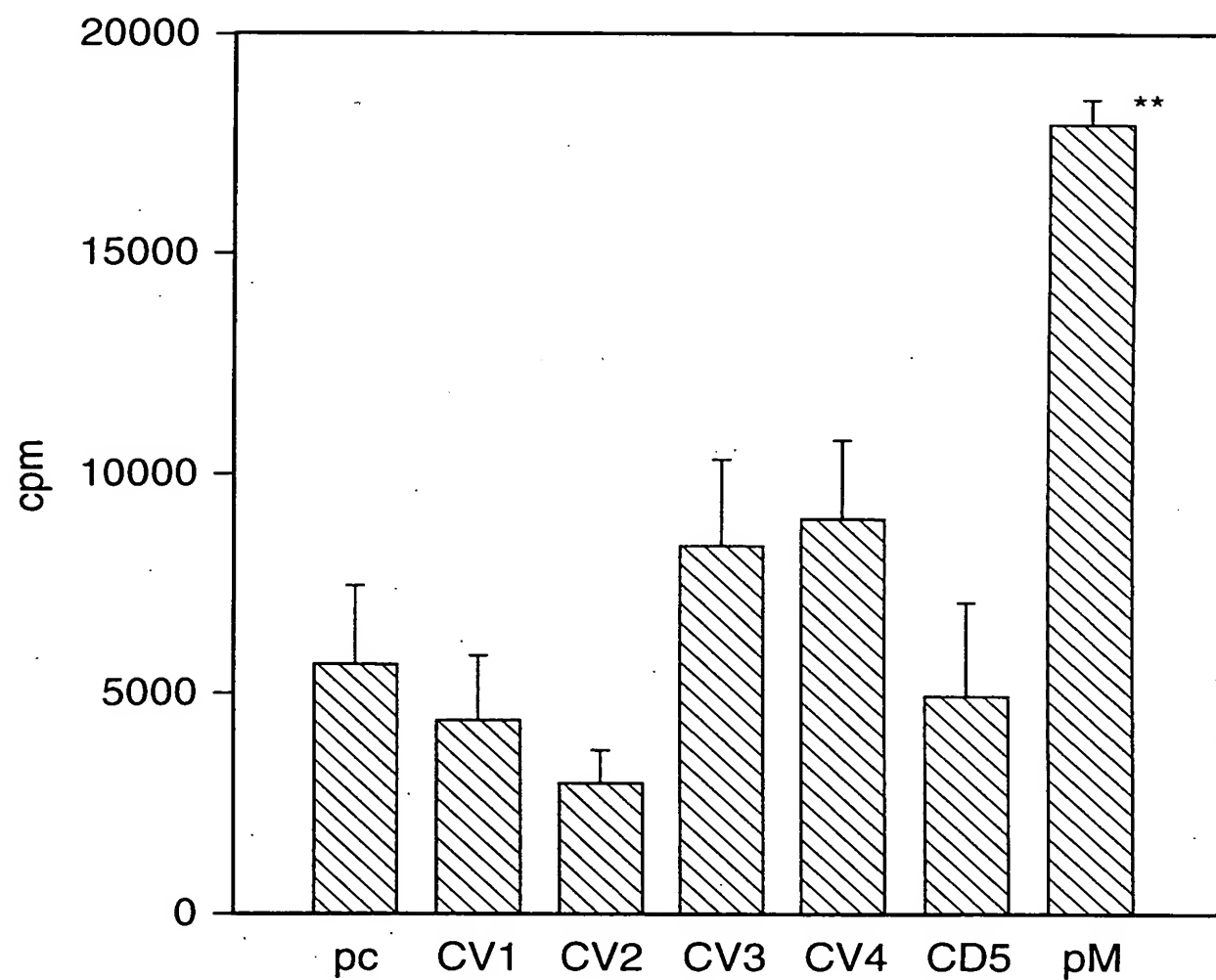


FIG.12

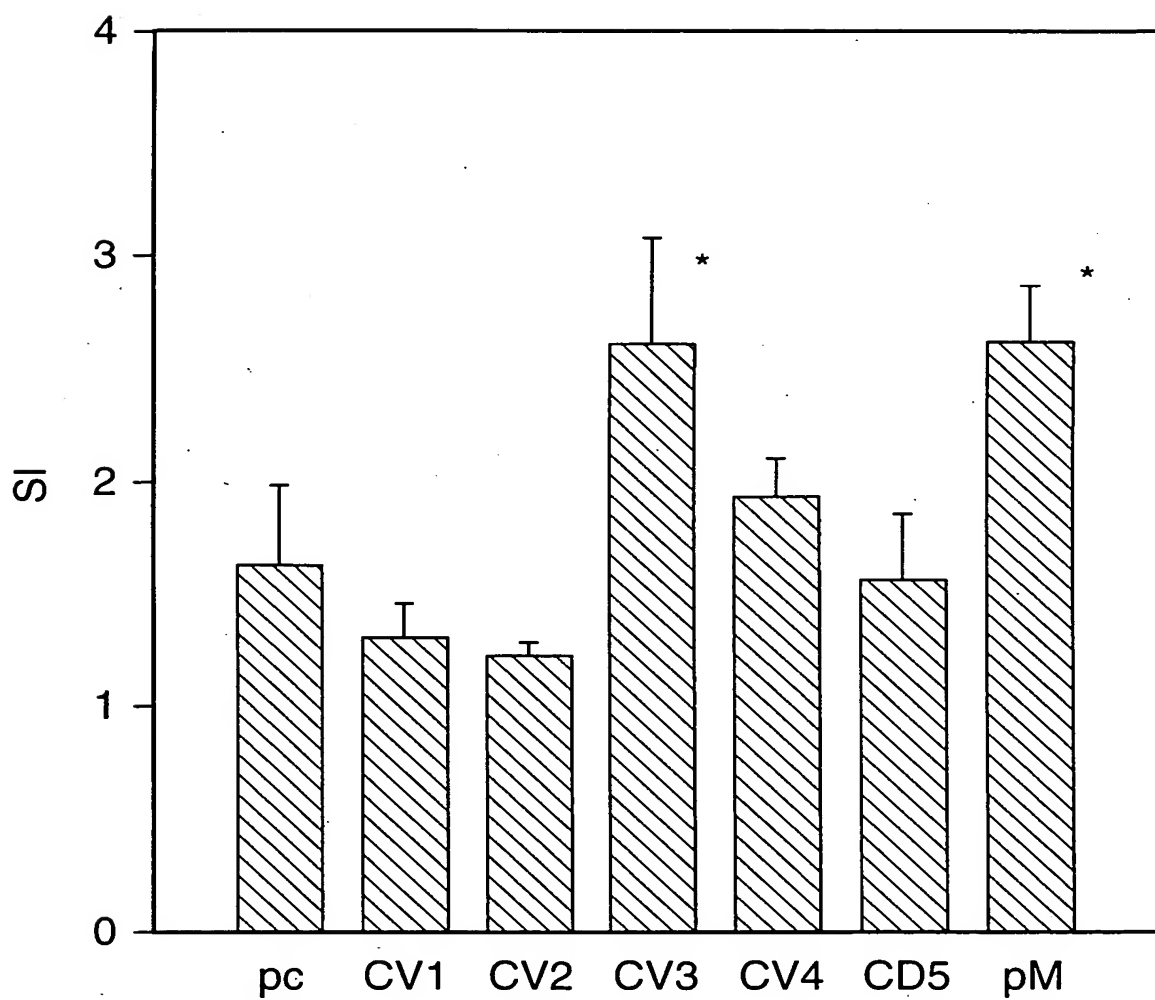


FIG.13

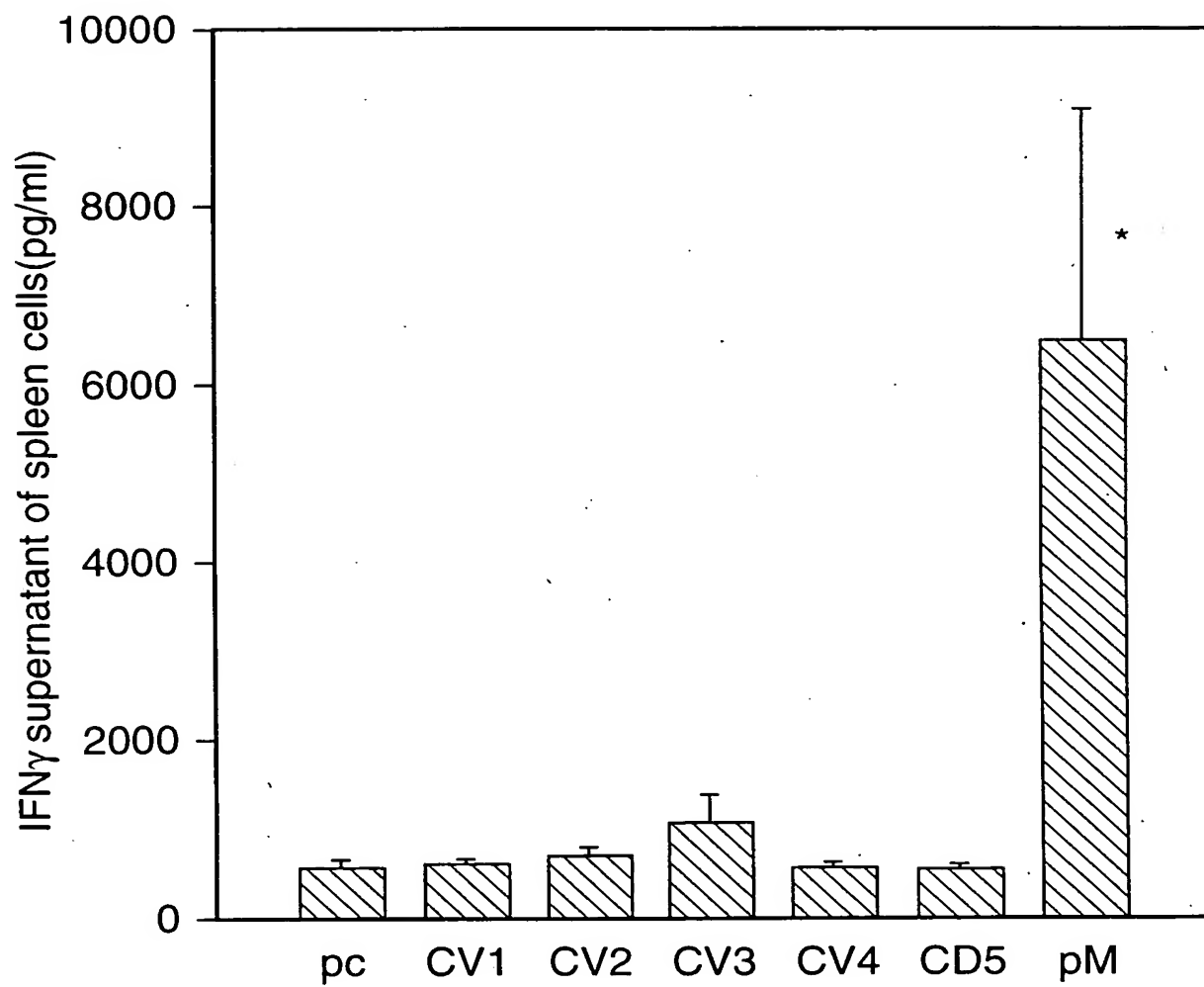


FIG.14

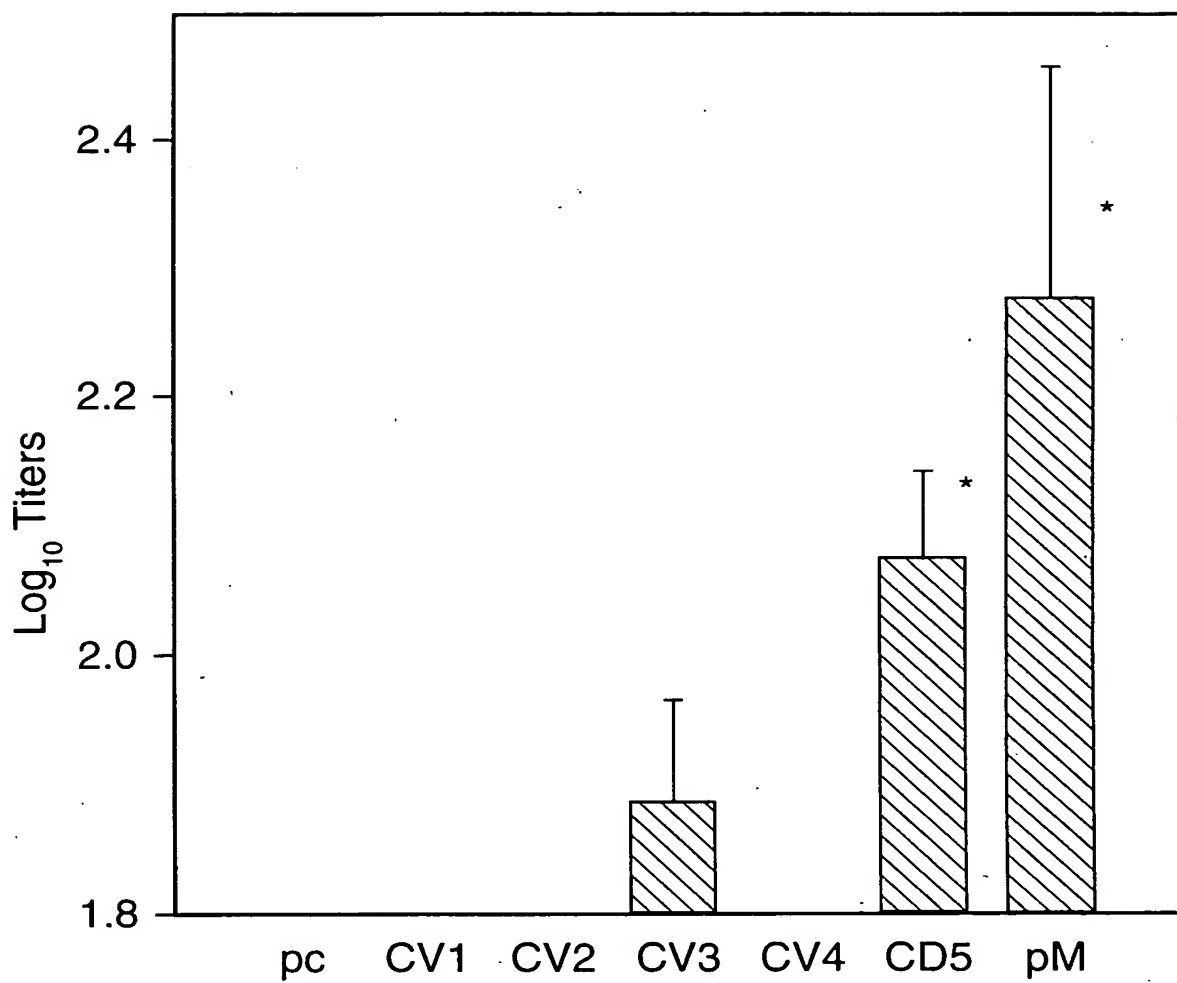


FIG.15



Figure 16

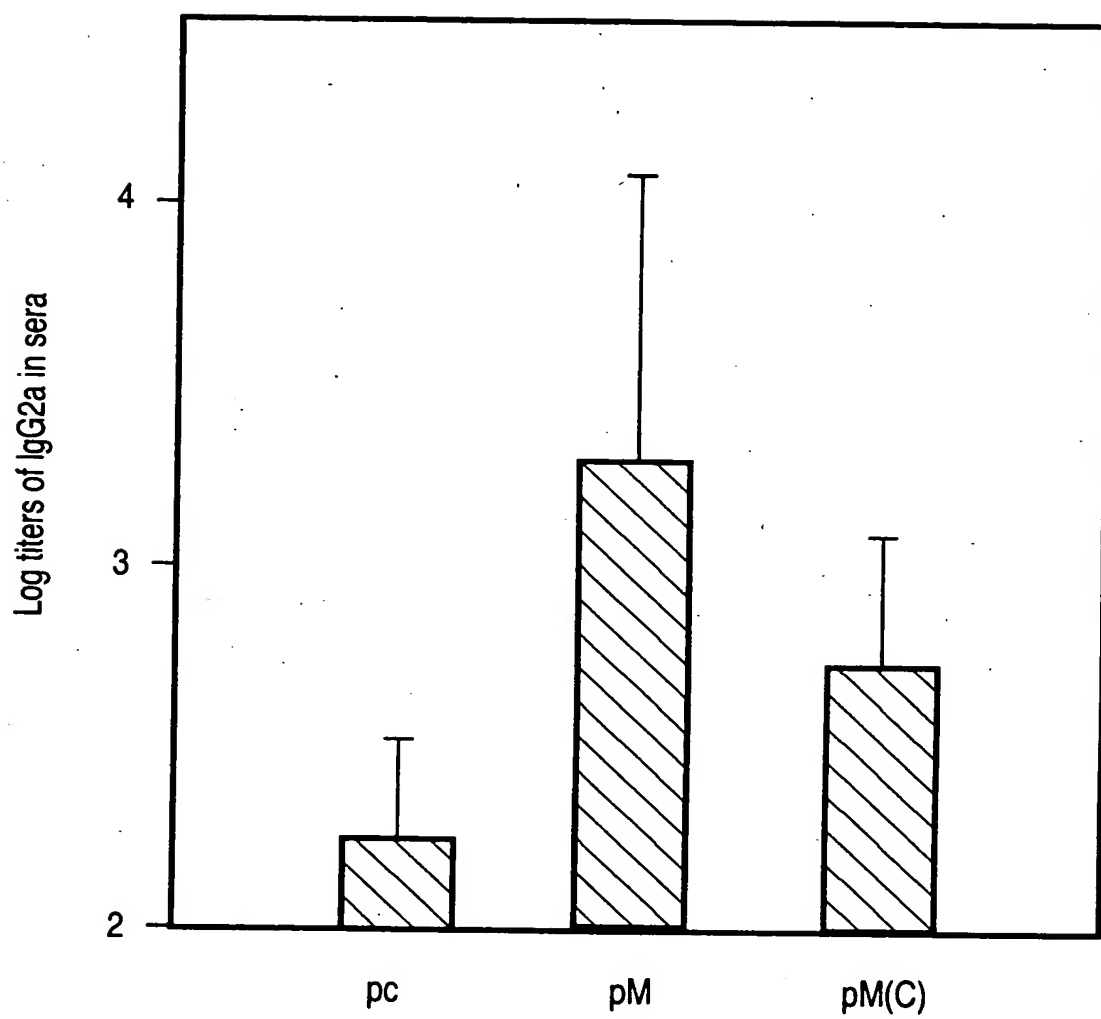


Figure 17

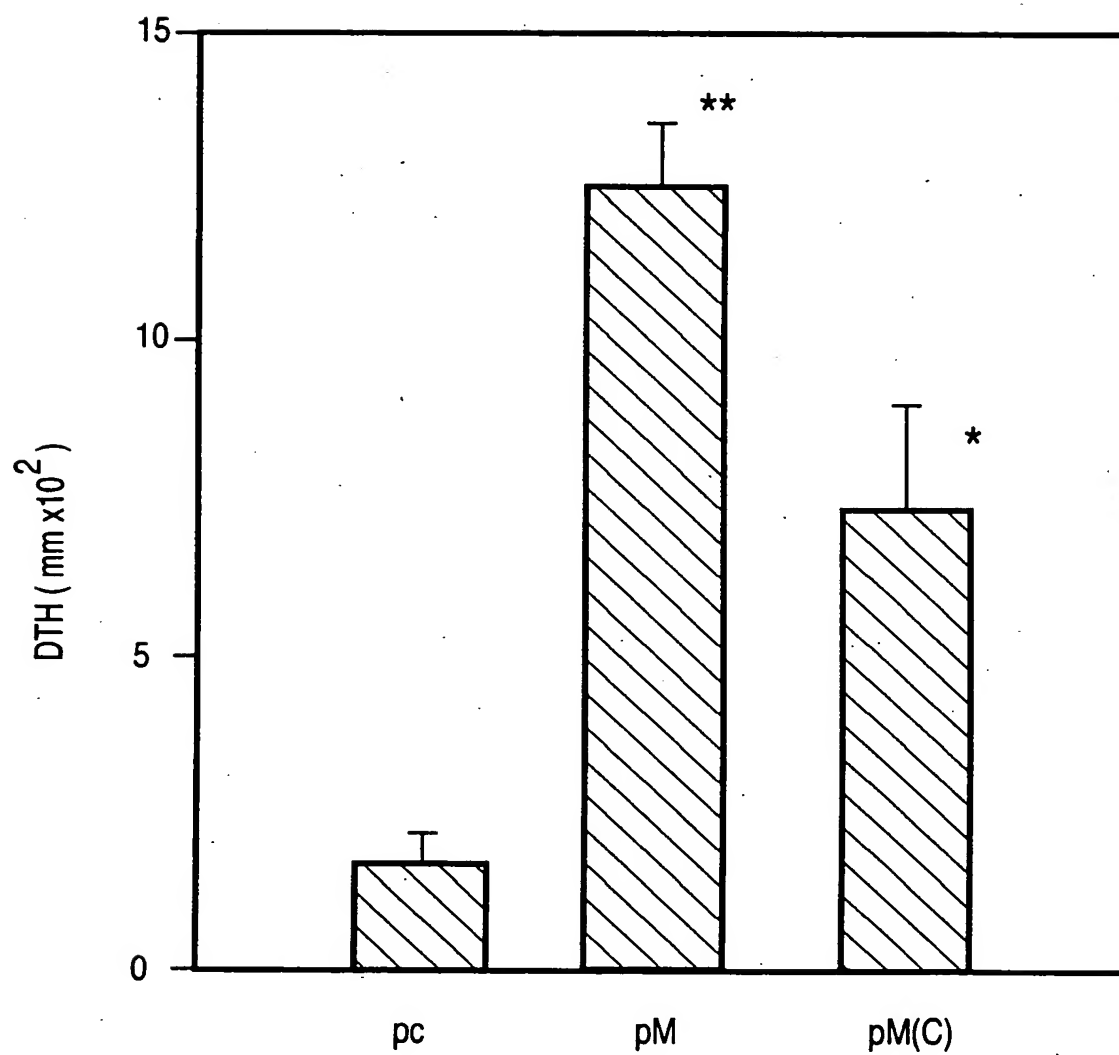


Figure 18

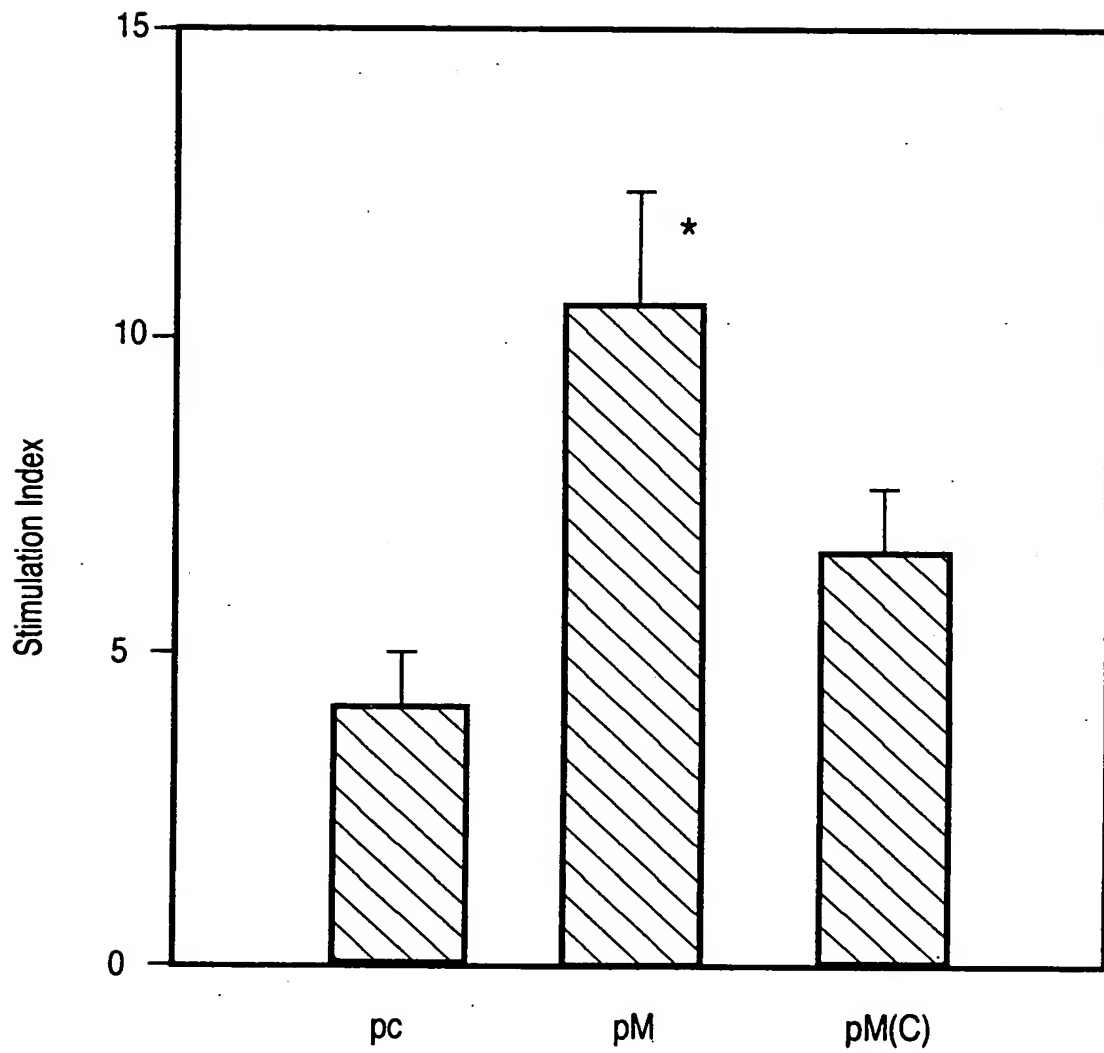


Figure 19

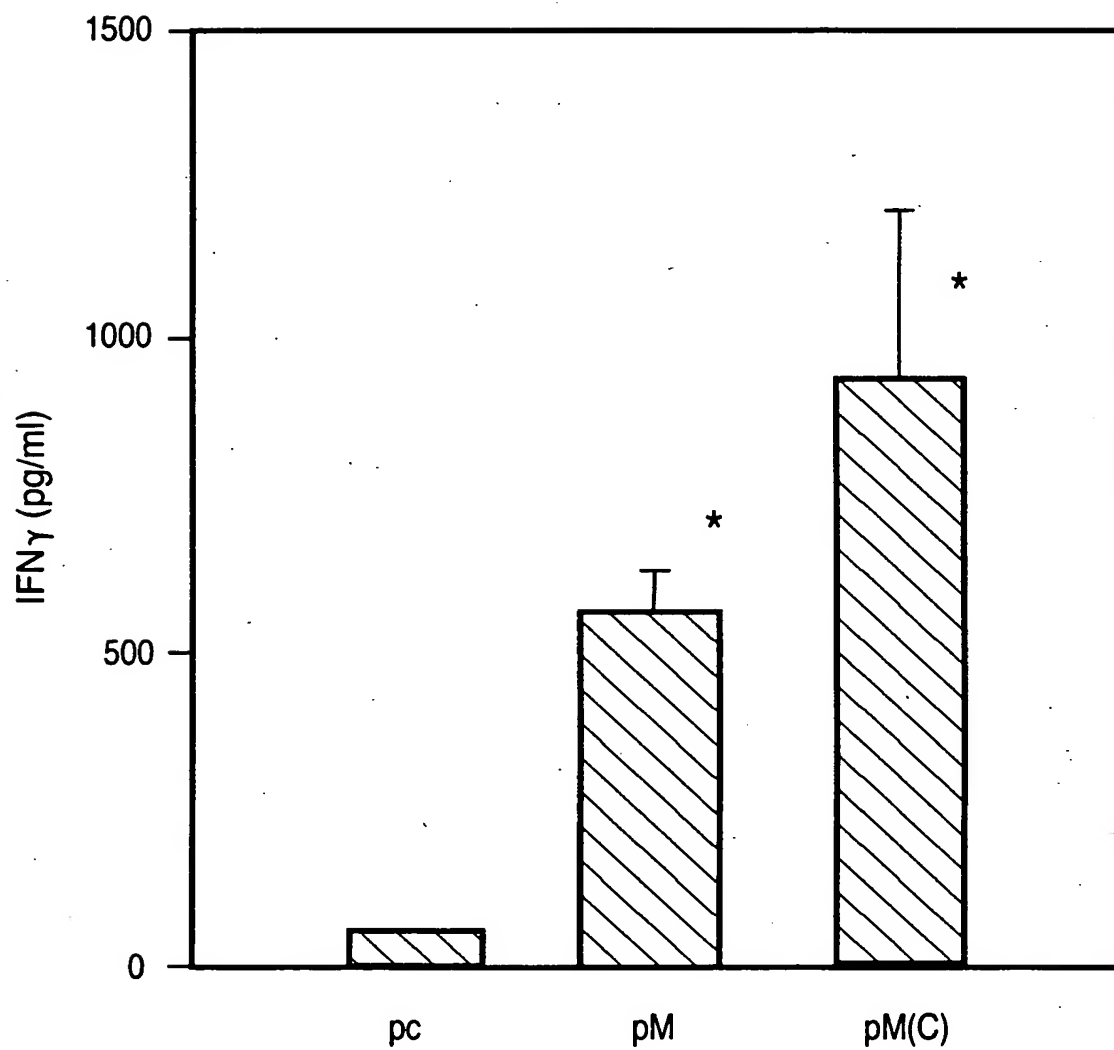


FIG. 20A

26

1

E	MKLLKSVLVEAAL-SSASSLQALPVCNPAEPSTLMDGILWEGFGDP	C	D
B	.....		
L1	.....		
DA	.....		
L2	.....		
F	.....		
L3	.....		
A	.....		
C	.....		
H	.....		
MoPn	.....A.V.-G....H.....		
SFPD	.....A.V.-G....H.....		
GPIC	.....A.L...T-G.L.....L...TM...AS...		
Mn	.....A.L...TT-G.L.....L...TM...AS...		
HuPn	.....A.LS..FAG.VG.....SD...L...TI...AA...		

59

29 23

P	C	TIW	C	DAISMVMGYGDFVFDRVLKTDVNK	EFQ-MGDKPTSTTGNATAPTT	VD I	78
				.....	...-A...T....V.S.		78
				.....Q.....	...-A...A....A.S.		78
				.....E.....	..H-A...TD...SA.S.		78
				.....Q.....	...-A...TA....A.S.		78

FIG. 20B

..	..	..	..	E-..EALAGAS..T.--S.	76
..	..	..	..	...-..AE...TSDTAGL-SND	77
..	..	..	V	...-..AA...TSDTAGL-EKD	77
..	..	..	..	...-..AA...TSDTAGL-QND	77
..	..	..	V	...-..AA...TNDADL-QND	77
..	..	A.	..	...-..AA...G-DADL.TAP.	77
..	..	..	..	Q.E-..PV..T.DTD.A.DI.	76
..	..	..	..	TIS-..TA...N.A.DFK	75
..	..	S.	..	T.SG.AAT..QA..N.SMTNQ	79
..	..	A.	..	T.S-..A...S.A.--N	73

E	LT---ARE	NPAYGRHMQDAEMFTNAACMAINIWDRFDVF	C	TLGASSGYL
B	.---...	.....	.	.....
L1	C.---...	.....	.	T.....
DA	.---...	.....	.	T.....
L2	C.---...	.....	.	T.....
F	.SKLVE.T	.....K.....T.....	.	T.....
L3	P.TNV..P	.....K.....Y.....	.	TT.....
A	PVANV..P	.....K.....Y.....	.	TT.....
C	P.TNV..P	.....K.....Y.....	.	TT.....
H	PKTNV..P	.....K.....Y.....	.	TT.....

FIG.20C

MoPn	-PA--S..	....K.....Y.....	....T.....	
SFPD	TST--P..	....K.....Y.....	....T.....	
GPIC	TVA--D.N	.I...K.....WS...FL.....	....N.....	
Mn	PEAN-G.P	.I.....E...W.S...FL.....I..	....N..F	
HuPn	Y.TAVD.P	....NK.IH...W....GFI.....	....N..I	
				139
				159
				174
				175
				174
				174
				175
				175
				177
				177
				177
				177
				177
				171
				180
				169
				178
				170

			VD II	
KGNSASFNLVGLFG	DNENQSTVKTNS----	VPNMSLDQS		
.....	N...TK..SNGAF----	.....		
.....	.....KDA-----	.....F...		
.....	....K....AE.-----	.....F...		
.....	....HA..SDSKL-----	.....		
.....	.GV.ATKPAAD.-----	I..VQ.N..		
.....	TKTQSTNEN.AKL-----	..TA.N.A		
.....	TKTQS.GFD.ANI-----	..TA.N.A		
.....	TKTQS.SFN.AKL-----	I..TA.NEA		
.....	TKTKS.DFN.AKL-----	..IA.NRA		
....A.....	RD.TA-----	VAADDI..V..S.A		
.....	.GVANAANAIAATVAADSL..	V..S.A		
.A.A.A.....L.	VTG-----	TDLQGG---Y..VAIS.G		
.AS..A.....I.	FSAAS.ISTDLPIQ---	L..VGIT.G		
R...TA.....	VKG--T..N-ANE-----	L..V..SNG		

FIG.20D

	182	184	210	
E	ARAALWE	C G C	ATLGASFQYAQSKPKVEELNVL	C NAAEFFTNKPKGY
B	.....	.....	.....	.....
L1	.....	.....	.....	.....
DA	.....	.....	.....	.....
L2	.....	.....	.....	.....
F	.....	.....	I.....	.....
L3	.....	.....	.....	D.S.....
A	.....	.....	.....	S.....
C	.....	.....	.....	S.....
H	.....	.....	.....	S.....
MoPn	.....	.....	.....	.....
SFPD	.....	.....	.....	.....
GPIC	.....	.....	.....	.....Q.....
Mn	.....	.....	E.....N.I.M...I	S SPTQ.V.H.R..
HuPn	.....	.....	E.....N.I.M...T	S SP.Q.V.H.R..
	.....	.....	E.....	VSQ.SV.....
		223	233	
		VD III		
VG	--QEEPLALIAGIDA	ATGTDASIDYHEWQASIALSVRLNMF	TPYIGVKSRA	273
..	--K.L..D.T.....	.....	.....	274
..	--K....D.T.....	.....	.....	273
..	--K....D.T.....	.....	.....	273
..	--....D.K...GV	.....	.....	274



FIG.20E

..	--K...D.T....	.....S.....	274
..	--A...DIT...E.	.....V	276
..	--A...DIT...E.	.....V	276
..	--A...NIT...E.	.....V	276
..	--A...DIT...E.	.....V	276
..	--...NIK...VS	.....D.....	270
..	--K...T...S	.....D.....	279
K.	TAAN...P.T...ES	...D..S.T.K...IG...LV...N....	270
K.	ASSN...PIT...TE	...D..S.T.K...VG...LV...N....	280
K.	--VA...PTD..VAT	.....S.T.N...VGAS...SLV...Q....	269

287

316

E	SFDADTIRIAQPK	SATAIFDITTLNPTIAGAG-DVKASA----	EGQLG DT
B	.....	..ET...V.....T..-----	..
L1	.....	L.....-E...N.-----	..
DA	.....	.....TGT-----	..
L2	.....	..TV..V.....-----	..
F	...S.....R	LV.PW.I.....C.-S.AGANT---	IS ..
L3	.....	L.E.VL.V.....K.-S.V..GS---.NE.A ..	..
A	.....	L.KPVL.....K.-T.VS..-----NE.A ..	..
C	.....	L.E..L.V.....K.-S.VSAGT---DNE.A ..	..
H	.....	L.E..L.V.....K.-T.V..GS---DNE.A ..	..
MoPn	.....	LE.S.LKM..W....S.S.I..-----DTKIT ..	..

FIG.20F

SFPD	.....	L.E..L.V..W.....	TIADGTGAATANG.A ..
GPIC	T....S.....	LP...INL..W...LL.---	EATTINIG---AKYA .Q
Mn	T.....	LKSE.INI..W..SLI.ST-	TALPNNCK--DV.S .V
HuPn	T....N.....	LP..VINL.AW..SLL.---	NAT.LSIT---DSFS .F

335

MOIVSLQINMKSRKS	C	GIAVGTTIVDADKYAVIVETRLIDERAHVNAQFRE	371
.....	.....	.....	372
.....	.....	.....	371
.....	.....	.....	371
.....	.....	.....	372
.....	.....	.....	373
.....	.....	.....	375
.....	.....	V.....I.....	374
.....	.....	.....A.....	375
.....	.....	.....	375
L.....	.....	L.I.....	365
L.....	.....	L.I.....	382
L..A...I.....A .	.....	A.LI...WSI.G.A..N.....	367
L..A.I.I.....A .	.....	V...A.LI...WSI.G.A..N....M.....	380
.....C.I..F....A .	.....	VT..A.L....WSL.A.A..N.....SG...	366